



Repeater: NØDX 145.190 MHz (Input 144.590 / Tone 192.8 Hz)



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## The Eastern Iowa DX Bulletin

Number 237, August 30, 2024

**Craig Fastenow, KØCF, Editor**

This bulletin is a compilation of **currently active** DX operations (or those that will become active within the current week) from recent issues of the three DX bulletins listed below and other sources. Credit for the source is given at the end of each article.

Articles are ordered by the entity's callsign prefix from the *ARRL DXCC Entities List*. Callsigns used are in **bold** with dates of operation highlighted in **red**. Clickable links are provided for QSL and other information wherever possible. Note that articles may be edited for grammar, language, style and accuracy and will remain in *The Bulletin* while active; articles that are announcements of ongoing operations, or that have no specified end date, will be removed after three weeks.

Also included is a [Propagation](#) section, updated daily; and a [Contest Calendar](#) of upcoming popular contests.

DX News items are courtesy of:

The ARRL DX Bulletin

The bulletin is available at <http://www.arrl.org>

425 DX News, A.R.I. DX Bulletin (425DXN)

Edited by Mauro Pregliasco, I1JQJ & Valeria Pregliasco, IK1ADH

425 DX News Home Page: <https://www.425dxn.org/>

425 DX News Google Group: <https://groups.google.com/g/425eng>

DX Newsletter (DXNL)

Edited by Andreas Salder, DK5ON

A weekly service of DARC Committee "DX", <http://www.darcdxhf.de>

Ohio-Penn DX Bulletin (OPDX)

Edited by Tedd Mirgliotta, KB8NW. Although OPDX is no longer published as a weekly bulletin, Tedd still sends DX news emails.

We will occasionally publish some of them.

Propagation data is from:

National Oceanic and Atmospheric Administration's

[Space Weather Prediction Center](#)

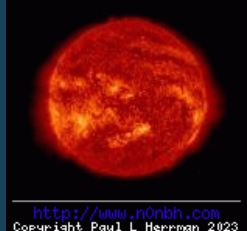
Dr. Tony Phillips' [SpaceWeather.com](http://SpaceWeather.com), used by permission

Contest data courtesy of the [WA7BNM Contest Calendar](#)



### Solar-Terrestrial Data

31 Aug 2024 1709 GMT  
SFI: 214 SN: 147  
A-Index: 23  
K-Index: 3  
X-Ray: C3.5  
304A: 167.9 @ SEM  
Ptn Flx: 438  
Elc Flx: 2070  
Aurora: 2/n=1.99  
Mag (Bz): 6.8  
Solar Wind: 393.2  
Geomag Field UNSETTLD  
Sig Noise Lvl S2-S3  
Current Solar Image



<http://www.nonbh.com>  
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## DX News

**3A, MONACO.** Col, MMØNDX and Steve, MMØSAJ will be active again as **3A/MMØNDX** and **3A/MMØSAJ** from Monaco on **September 5th-9th**. Their main focus is likely to be on the low bands during their evening hours, and on 6 meters if propagation permits. QSL both calls via [EB7DX](#) and LoTW.

-[425DXN # 1739 August 31, 2024] (0830-0913)

**3W, VIETNAM.** Greg, F4BPO, active as **XV9BPO** since 2019, now also uses the callsign **XV9Q** from Saigon and from the beach. QSL direct via [N4GNR](#).

-[DXNL # 2419 August 14, 2024] (0816-0906)

**4L, GEORGIA.** Stephane, F4JZW, signs **4L/F4JZW** until **September 30th** on 80-6m with 10W and a wire. QSL via LoTW.

-[DXNL # 2421 August 28, 2024] (0830-1004)

**4W, TIMOR-LESTE.** Alan, VK1AO will be QRV again as **4W/VK1AO** from Timor Leste from **August 19th to September 4th**, including activity from POTA sites and from Mt. Ramelau (Tatamailau), the highest peak in Timor-Leste. Usually, he operates mainly FT8 on 40-12 meters. See <https://www.qrz.com/db/4W/VK1AO> for more information. QSL via LoTW, eQSL and [ClubLog's OQRS](#).

-[425DXN # 1736 August 10, 2024] (0816-0906)

**5H, TANZANIA.** Uli, DO4UB will be QRV as **5H2MUA** from Arusha **beginning August 20th**. QSL via [DO2HQS](#).

-[ARRL DX Bulletin # 30 August 15, 2024] (0816-0906)

**8Q, MALDIVES.** Zhao, BG4JMI, currently works on the Maldives and uses the callsign **8Q7JM** during his spare time. He is due to stay for several years but has to renew his callsign every three months. QSL via [BG4JMI](#), LoTW.

-[DXNL # 2420 August 21, 2024] (0823-0913)

**9G, GHANA.** Adam, M6NXW, will be active as **9G5AS** from Breman, Ghana from **August 26th to September 5th**. He will operate QRP on 20-10 meters SSB, FT8 and FT4. QSOs will be uploaded to eQSL, QRZ Logbook and HRD Log. No LoTW and no paper QSL cards will be provided.

-[425DXN # 1737 August 17, 2024] (0823-0906)

**9M, MALAYSIA (EAST & WEST).** Several special event stations located in various Malaysian states and federal territories will celebrate the 67th anniversary of Malaysia's independence (August 31, 1957) on **August 30th - September 1st**. Active from West Malaysia will be **9M67MA, 9M67MB, 9M67MC, 9M67MD, 9M67MJ, 9M67MK, 9M67MM, 9M67MN, 9M67MP, 9M67MR, 9M67MT** and **9M67MW**. Active from East Malaysia will be **9M67MQ** (Sarawak) and **9M67MS** (Sabah). QSL via operator's instructions.

-[425DXN # 1737 August 17, 2024] (0830-0906)

**9M, MALAYSIA (EAST & WEST).** The following special event stations celebrate Malaysia's 67th anniversary of independence from **August 30th to September 1st**:

- 9M67MT** - Terengganu (West Malaysia - 9M2)
- 9M67MD** - Kelantan (West Malaysia - 9M2)
- 9M67MK** - Kedah (West Malaysia - 9M2)
- 9M67MR** - Perlis (West Malaysia - 9M2)
- 9M67MC** - Pahang (West Malaysia - 9M2)
- 9M67MN** - Negeri Sembilan (West Malaysia - 9M2)
- 9M67MW** - Kuala Lumpur (West Malaysia - 9M2)
- 9M67MB** - Selangor (West Malaysia - 9M2)
- 9M67MM** - Melaka (West Malaysia - 9M2)
- 9M67MJ** - Johor (West Malaysia - 9M2)
- 9M67MS** - Sabah (East Malaysia - 9M6)
- 9M67MQ** - Sarawak (East Malaysia - 9M6)
- 9M67MA** - Perak (West Malaysia - 9M2)
- 9M67MP** - Penang (West Malaysia - 9M2)
- 9M67MY** - West Malaysia.

QSL via LoTW, eQSL.

-[DXNL # 2421 August 28, 2024] (0830-0906)

**9M6, EAST MALAYSIA.** Special event station **9M61LS** is QRV until **September 16th** to celebrate the 61st anniversary of Sabah's independence. QSL via [9M61LS](#).

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0920)

**9M6, EAST MALAYSIA.** Team **9M1Z** will be active from the "Semporna Islands", Sabah, East Malaysia during the first half of September. They will be QRV from four islands: Mabul ([September 1st-4th](#)), Timba-Timba ([September 5th-7th](#)), Matakang ([September 8th-11th](#)) and Pom-Pom ([September 12th-15th](#)). Look for activity on 80-6 meters SSB, CW, FT8/FT4 and RTTY. QSL via LoTW, [ClubLog's QQRS](#) (see <https://www.qrz.com/db/9M1Z> for the links to the four logs, which will be uploaded separately), or direct to [9W8ZZK](#) or [9M8WIN](#).

-[425DXN # 1738 August 24, 2024] (0830-0920)

**9M6, EAST MALAYSIA.** Celebrating the 61st Sabah Day (August 31st) and Malaysia Day (September 16th), special callsign **9M61S** will be active from [August 23rd to September 16th](#). QSL direct to P.O. Box 20469, 88761 Luyang, Sabah, Malaysia.

-[425DXN # 1738 August 24, 2024] (0823-0920)

**C9, MOZAMBIQUE.** Jo, CT1EYQ is QRV as **C91/CT1EYQ** until [September 4th](#). Activity is holiday style on 20, 15, and 10 meters using CW and possibly FT8. QSL via operator's instructions.

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0906)

**CY9, ST. PAUL I.** A group of operators will be QRV as **CY9C** from [August 26th to September 5th](#).

Activity will be on 160 to 6 meters using CW, SSB, RTTY, and SuperFox FT8. This includes some EME and Satellite activity. QSL via [WA4DAN](#).

-[ARRL DX Bulletin # 31 August 22, 2024] (0823-0906)

**DL, GERMANY.** Members of DARC's Ortsverband Greifswald (DLØHGW) will be active as **DL25ØCDF** from [August 1st to September 30th](#). The special callsign marks the 250th anniversary since the birth of the painter Caspar David Friedrich, an icon of the German Romantic movement. A certificate will be available, see <https://dl0hgw.darc.de/dl250cdf.htm> for information. All QSOs will be confirmed automatically via the bureau, eQSL and LoTW.

-[425DXN # 1733 July 20, 2024] (0726-0927)

**DXCC TOP TWENTY.** Here are the top 20 entities on ClubLog's "DXCC Most Wanted" list as of August 30, 2024:

1. P5	DPRK (North Korea)	11. ZS8	Prince Edward & Marion Islands
2. BS7H	Scarborough Reef	12. KH4	Midway Island
3. CEØX	San Felix Islands	13. VKØM	Macquarie Island
4. BV9P	Pratas Island	14. PYØS	Saint Peter And Paul Rocks
5. KH7K	Kure Island	15. KP5	Desecheo Island
6. KH3	Johnston Island	16. VPØS	South Sandwich Islands
7. 3Y/P	Peter 1 Island	17. KH5	Palmyra & Jarvis Islands
8. FT5/X	Kerguelen Island	18. ZL9	New Zealand Subantarctic Islands
9. YVØ	Aves Island	19. FK/C	Chesterfield Islands
10. 3Y/B	Bouvet Island	20. VKØH	Heard Island

For the complete list, see <https://clublog.org/mostwanted.php>

-[KØCF August 30, 2024] (0830-0920)

**E5/S, SOUTH COOK IS.** Tom, N2WLG will be QRV as **E51WLG** from Rarotonga (OC-013) from [September 1st to 8th](#). Activity will be holiday style on 40 to 10 meters using CW and various digital modes. QSL to [N2WLG](#) or LoTW.

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0913)

**E5/S, SOUTH COOK IS.** Bob, ZL1RS will be active again as **E51EME** from Rarotonga (OC-013, grid BG08cs), South Cook Islands from [August 23rd to September 15th](#). He will focus on 6m FT8 via ionospheric propagation, with 6m EME using Q65-60A as his secondary objective. See <https://www.qrz.com/db/E51EME> for more information and updates. QSL via [ClubLog's QQRS](#) and LoTW.

-[425DXN # 1737 August 17, 2024] (0823-0920)

**EA, SPAIN.** Special event callsigns **EG1SDC-EG9SDC** ([September 1st-7th](#)) and **EH1SDC-EH9SDC** ([September 8th-15th](#)) will be activated to commemorate Day of Asturias and the principality's patron saint, popularly known as the Santina de Covadonga. This is the 40th edition of the 'SDC' special event. Also active will be **EG4ØSDC** ([September 1st-15th](#)) and **ED3SDC** ([September 14th-15th](#)). See <https://santina.dxfun.com/> for more information, including online logs and downloadable certificates.

QSL for all callsigns via [EA1AUM](#), LoTW and eQSL.

-[425DXN # 1738 August 24, 2024] (0830-0920)

**EK, ARMENIA.** Artem, R2GEO is QRV as **EK/R2GEO** from Yerevan. Activity is on 40 and 20 meters using SSB and various digital modes. QSL to [R2GEO](#).

-[ARRL DX Bulletin # 31 August 22, 2024] (0823-0913)

**F, FRANCE.** The following special event stations will be active around the Paralympic Games in Paris from **August 28th to September 8th**: **TM4ØIPC**, **TM2Ø24JPP**, **TM2Ø24PG**, **TM24JPO**, **TM24JPP**, **TM42JP**, **TM51JP**, **TM63PARA**, **TM67PR**, **TM77PO**, and **TM78OGP**. QSL for TM4ØIPC via [F6DZU](#); others via qrz.com information.

-[DXNL # 2421 August 28, 2024] (0830-0906)

**F, FRANCE.** To commemorate the 80th anniversary of the liberation of Winglees during WWII (September 2, 1944), the local radio club (F4KLR) will be active as **TM8ØLW** on **August 31st, September 2nd and for another 13 days until November 9th**. All SSB and CW QSOs will be confirmed automatically via the bureau and eQSL; FT8 QSOs will be confirmed via eQSL.

-[425DXN # 1738 August 24, 2024] (0830-1108)

**F, FRANCE.** Weather permitting, Gil, F4FET plans to operate as **F4FET/p** from Tombelaine Island (EU-156) on **August 31st and September 1st**. Camping is prohibited on the island, so he will have to walk back and forth during the day at low tide (7 kilometers on foot). He expects to be QRV for about 2.5 hours each day: 1000-1230 UTC +/-30 minutes on August 31st, and 1100-1300 UTC +/-30 minutes on September 1st. He will operate only SSB on 17 and 10 meters (on or around 18162 kHz and 28320 kHz). QSL via [ClubLog's QQRS](#).

-[425DXN # 1737 August 17, 2024] (0830-0906)

**F, FRANCE.** The radio club F4KIR from Saint Malo uses the callsigns **TM8ØCAL** (during August) and **TM8ØLCA** (during September) to commemorate their city's liberation 80 years ago. QSL via [F5BNJ](#).

-[DXNL # 2419 August 14, 2024] (0816-0927)

**F, FRANCE.** Vitaly, F4WBU will be active as **TM2Ø24PG** on **August 12, 19 and 26**, and again from **August 28th to September 8th** during the 17th Summer Paralympic Games. All QSOs will be confirmed via the bureau.

-[425DXN # 1736 August 10, 2024] (0809-0913)

**F, FRANCE.** Michel, F8GGZ will be active as **TM24JOL** from **July 26th to August 11th**, and as **TM24JPO** from **August 28th to September 8th** for the Paris 2024 Olympic and Paralympic Games, respectively. QSL via [F8GGZ](#).

Several other callsigns are expected to be active during the Summer Olympics, including

**TM1ØØOG** operated by Team TM3P; QSL direct to [F5PYI](#)

**TM17JO** operated by Jean-Claude, F1HOM from Re Island (EU-032);

QSL via the bureau

**TM2Ø24JO** operated by members of Radio Club d'Esquerdes. QSL via [F5KAI](#).

**TM24PRS** operated by F4DTO and F4GFE; QSL via [F4DTO](#)

**TM36JO** operated by members of the Association des radioamateurs de l'Indre; QSL via the bureau, or direct to [F5OHM](#)

**TM37JO** operated by F4ENK, F4ERS, F5CWU, F5SQM and F6FYA; QSL via F5CWU's OQRS (<https://www.f5cwu.net/oqrs/>)

**TM4ØJO** operated by members of the RadioPole Associatif REF-40 (F4KLM); QSL via [F6DZU](#) and LoTW

**TM73JO** operated by F6HQP; QSL via the bureau, LoTW, QRZ Logbook

**TM8JOP** operated by Yves, F8LLA, one of the 45,000 volunteers who will support the Olympics

-[425DXN # 1733 July 20, 2024] (0726-0906)

**F, FRANCE.** In addition to earlier lists, the following special event stations are also active around the Olympic Games:



\* **TM5FO**, **August 26th**, Dept. 80 (Somme)  
\* **TM51JP**, **August 28th-Sept. 8th**, Dept. 51 (Marne); QSL via F5JYD.  
\* **TM4ØIPC**, **August 28th-Sept. 8th**, Dept. 40 (Landes)  
\* **TM24JPO**, **August 28th-Sept. 8th**, Dept. 71 (Saone et Loire)  
-[DXNL # 2417 July 31, 2024] (0802-0906)

**FG, GUADELOUPE.** Thierry, F4IDN is QRV as **FG/F4IDN** near Capesterre Belle Eau **until September 15th**. Activity is on 40 to 10 meters using SSB and digital modes. This includes being active from POTA site GP0001. QSL to [F4IDN](#).  
-[ARRL DX Bulletin # 31 August 22, 2024] (0823-0920)

**FO, FRENCH POLYNESIA.** Yann, F1SMB will be active again as **FO/F1SMB** from French Polynesia from **August 15th to September 15th**. His main QTH will be Tahiti (OC-046), with a side trip to Fakarava (OC-066). Usually, he operates FT8 and SSB 40-10 meters. QSL via [F1SMB](#), LoTW, eQSL.  
-[425DXN # 1736 August 10, 2024] (0809-0920)

**FP, ST. PIERRE & MIQUELON.** Thomas, DC8TM, and his wife Martina, DF3TS, will be active from St Pierre (NA-027) as **FP/DC8TM** and **FP/DF3TS** from **August 24th to September 16th**, including POTA and SOTA locations. For a detailed schedule see: <https://www.grz.com/db/DC8TM>. QSL via [DC8TM](#) and [DF3TS](#).  
-[DXNL # 2420 August 21, 2024] (0823-0920)

**GM, SCOTLAND.** Members of the Unicom Radio Club are QRV with special event call sign **GB1URC** **until September 4th** to mark the official introduction of the club to the amateur radio community. Activity is on the HF bands. QSL direct to [GB1URC](#).  
-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0906)

**H4, SOLOMON IS.** Bernard, DL2GAC has been active again as **H44MS** from Malaita (OC-047), Solomon Islands for a few days, and will remain QRV **until around September 15th**. He operates SSB and some FT8 on 40-6 meters. QSOs will be uploaded to Club Log and LoTW. QSL via [DL2GAC](#).  
-[425DXN # 1739 August 31, 2024] (0830-0920)

**I, ITALY.** Luca, IK5AEQ will be active as **IA5/IK5AEQ** from Capraia Island (EU-028) on **September 2nd-7th**. He will operate SSB and FT8/FT4 on 40-6 meters (grid JN43). QSL via [IK5AEQ](#), LoTW, eQSL and [ClubLog's OQRS](#).  
-[425DXN # 1739 August 31, 2024] (0830-0906)

**ISØ, SARDINIA.** Giuseppe, IK5WWA will be QRV as **IMØC** from San Pietro (EU-165) from **September 1st to 15th**. Activity will be on 40 to 2 meters. QSL to [IK5WWA](#).  
-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0920)

**JA, JAPAN.** Kari, JQ7ELL will be active as **JQ7ELL/7** from Tashiro Island (AS- 206) on **August 31st - September 1st**. He will operate SSB and FT8 on 80-6 meters, with a focus on 17 and 10 meters. QSL via the bureau to [JQ7ELL](#).  
-[425DXN # 1737 August 17, 2024] (0830-0906)

**K, UNITED STATES.** Andy, AA5JF plans to be active from Dauphin Island (NA-213) from around **2100 UTC on August 30th until the early UTC hours of September 1st**. Later that day he will be QRV from Ship Island (NA-082) for about 7 hours between 1400 and 2200 UTC. He will operate CW, FT8 and some SSB from NA-213, and mostly CW "with some SSB thrown in" from NA-082. He will have antennas for 40, 30, 20, 17, 15 and 10 meters.  
-[425DXN # 1739 August 31, 2024] (0830-0906)

**K, UNITED STATES.** Matt, AF2F has been active from Long Beach Island (NA-111) since **August 19th** and will remain there **"for a few weeks"**. In his spare time, he is QRV as **AF2F/2** on 40-10 meters CW and FT8. QSL via LoTW, [ClubLog's OQRS](#), or [AF2F](#).  
-[425DXN # 1738 August 24, 2024] (0823-0913)

**K, UNITED STATES.** Howie, K1VSJ, has been operating from Martha's Vineyard (NA-046) since July 27th and will continue to do so **until September 4th**. QSL via [K1VSJ](#).

-[DXNL # 2418 August 7, 2024] (0809-0906)

**KH8, AMERICAN SAMOA.** Team **KH8T** (Robert K5PI, Amy KC5DJI, Don N5DD, Madison W5MJ and Keith VE7KW) will be active from Pago Pago (OC-045), American Samoa on **September 2nd-16th**. They will operate CW, SSB and FT8 (both "regular" and SuperFox) on 80-10 meters (possibly also 160 and 6 meters, if conditions allow) with two stations. See <https://www.kh8t.net/> for more information. QSL via [MØURX's OQRS](#).

-[425DXN # 1733 July 20, 2024] (0830-0920)

**LU, ARGENTINA.** Look for Hoc **LU5BE/S** and Enri **LU8EFF/S** to be QRV from Chepes and the rarely activated grid FF68qp, in the Argentine province of La Rioja, on **September 4th-8th**. They will operate SSB, CW, FT8 and RTTY on 40-6 meters with two stations. QSL LU5BE/S via LoTW, eQSL, QRZ Logbook, or via [EA7FTR](#); QSL LU8EFF/S via LoTW and eQSL (paper cards will not be provided).

-[425DXN # 1739 August 31, 2024] (0830-0913)

**OE, AUSTRIA.** Celebrating the 60th anniversary of the Rhein Ruhr DX Association (<https://rrdxa.org/>), Tom, OE4EIE is active as **OE4RRDXA** from **July 1st to September 30th**. QSOs will be uploaded to LoTW and ClubLog; paper QSL cards will not be available.

-[425DXN # 1731 July 6, 2024] (0705-0927)

**OE, AUSTRIA.** Special callsign **OE45NO** highlights the negative Austrian referendum about the commissioning of a nuclear power plant 45 years ago. QRV from September **until the end of November**. QSL via [ClubLog's OQRS](#), HRDlog.net OQRS.

-[DXNL # 2421 August 28, 2024] (0830-0920)

**OE, AUSTRIA.** Special event station **OE5ØLOW** is QRV **during September** to celebrate the 50th anniversary of the G-QRP Club. QSL direct to [OE7AFT](#).

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0927)

**OE, AUSTRIA.** The special event stations **OE2XXM** and **OE5XXM** will be active **during September** around the 38th International amateur radio meeting in Gosau. QSL via bureau.

-[DXNL # 2414 July 10, 2024] (0830-0927)

**OE, AUSTRIA.** Special callsign **OE7ØVIE** marks the 70th anniversary of Vienna International Airport (IATA code VIE) from **June 21st to September 30th**. QSL via [ClubLog's OQRS](#) (preferred), LoTW in due course, or via [OE6VIE](#).

-[425DXN # 1729 June 22, 2024] (0621-0927)

**ON, BELGIUM.** Members of UBA's Groupement De Verviers will be active as **OR8ØUSA** on **September 1st-15th** to commemorate the 80th anniversary of the liberation from German occupation; and on **December 16th-31st** commemorating the Battle of the Bulge during World War II, events in which the US military was heavily engaged. QSL via [ON4GDV](#).

-[425DXN # 1738 August 24, 2024] (0830-0920)

**OX, GREENLAND.** Bo, OZ1DJJ, is currently on Thule (NA-018) and operates as **OX3LX** during his spare time.

-[DXNL # 2419 August 14, 2024] (0816-0906)

**OY, FAROE IS.** Jim, WT8P, signs **OY/WT8P** from **August 28th to September 3rd**. QSL via [EA5GL](#).

-[DXNL # 2419 August 14, 2024] (0823-0906)

**OZ, DENMARK.** Team **OZØKRF** (SP1IVL, SP3LPR, SP3VAX and SQ1WO) will be active from Bornholm Island (EU-030) on **September 1st-7th**. They will operate SSB, CW and FT8 on 80-10 meters. QSL via [SP1KRF](#).

-[425DXN # 1739 August 31, 2024] (0830-0906)

**SV5, DODECANESE.** Special event call sign **SX5GB** is QRV **until September 5th** to mark the 200th anniversary of the Battle of Gerontas. Activity is on 160 to 2 meters using all modes. QSL direct to [SV2MAC](#).

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0906)

**SV9, CRETE.** Karl, DJ5IL is QRV as **SW9IL** from the Kissamos area. Activity is holiday style on 40 to 10 meters using CW. QSL to [DJ5IL](#).

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0920)

**TK, CORSICA.** Frans, DJØTP is QRV as **TK/DJØTP** until **September 4th**. QSL to [DJØTP](#) and LoTW.

-[ARRL DX Bulletin # 28 August 1, 2024] (0802-0906)

**TU, COTE D'IVOIRE.** Mustafa, TA2YGT is QRV as **TU/TA2YGT** from Abidjan until **September 16th**. Activity is in his spare time mostly on 20 meters using SSB and FT8, and on Satellite QO-100. QSL direct to [TA2YGT](#), LoTW.

-[ARRL DX Bulletin # 29 August 8, 2024] (0809-0920)

**V5, NAMIBIA.** Andreas, DB8UX is QRV as **V51/DB8UX**. Activity is on the HF bands using FT8. His length of stay is unknown. QSL to [DB8UX](#).

-[ARRL DX Bulletin # 31 August 22, 2024] (0823-0913)

**V7, MARSHALL IS.** Lisa, KJ6GHN, a Navy veteran, works on Kwajalein (OC-028) and operates during her spare time, mostly on Sundays and Mondays as **V73ML**. QSL via qrz.com.

-[DXNL # 2419 August 14, 2024] (0816-0906)

**VP6, PITCAIRN I.** Bill, GØVDE will be active as **VP6WR** from Pitcairn Island (OC-044) on **September 5th-15th**. He plans to operate SSB, FT8 (probably Multi-Stream MSHV) and some RTTY (depending on demand) on 80-6 meters using a linear amplifier. See <http://vp6wr.com> for more information. QSL via [MØURX's OQRS](#).

-[425DXN # 1737 August 17, 2024] (0830-0920)

**VU, INDIA.** Special event station **AT78I** is QRV until **November 13th** to celebrate 78 years of independence for India. Activity is on the HF bands using CW and SSB. QSL via [VU2JOS](#).

-[ARRL DX Bulletin # 31 August 22, 2024] (0823-1115)

**Z2, ZIMBABWE.** Pista, HA5AO will be QRV as **Z22AO** from **September 3rd to 13th** from Zambezi National Park. Activity will be on 80 to 6 meters using CW, SSB, and FT8. QSL to [HA5AO](#).

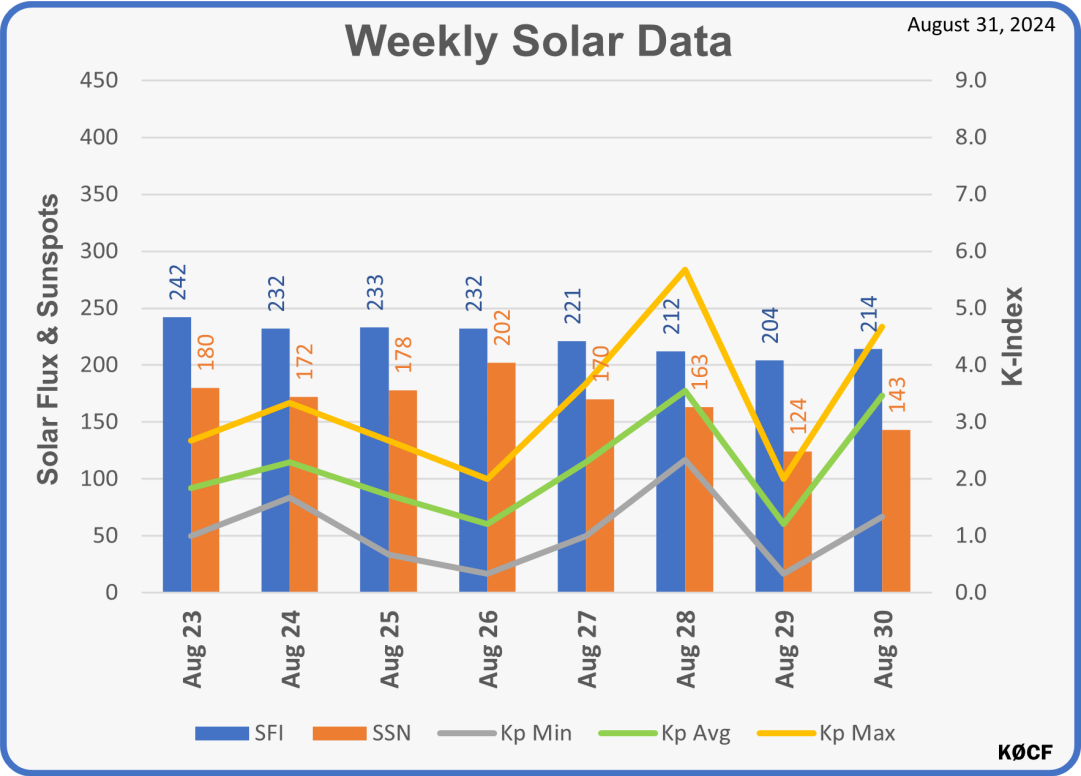
-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0913)

**ZB, GIBRALTAR.** Stations in Gibraltar can use the special **ZG prefix** from **September 3rd to 10th** for Gibraltar's National Day celebrations. QSL via operators' instructions.

-[ARRL DX Bulletin # 32 August 29, 2024] (0830-0920)

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## Propagation (Updated daily)



The Weekly Solar Data chart plots Solar Flux Index (SFI), Sunspot number (SSN) and Planetary K-Index (Kp) for the past 8 days. With 8 Planetary K-index readings each day, only the minimum, average and maximum K-index values are plotted. **Note:** You may click [here](#) or on the chart above to see the same data for the past month.

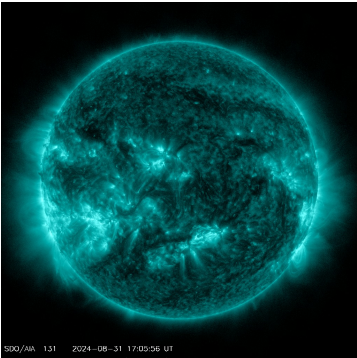
The Daily Solar Flux Index, Sunspot number, Planetary K-index, Solar Flux predictions and Solar Flare data used in this bulletin have been collected by KØCF from the U.S. Department of Commerce's NOAA Space Weather Prediction Center.

The propagation graphs above are the creations of KØCF and are unique in space weather reporting.

*Please Note: The graphs are high resolution .PNG files which you may view in greater detail using your browser's "zoom" feature. Alternatively, right click on the graph and select "Open Image in New Tab" to enlarge it, or "Save Image As..." to save it to your computer for further analysis.*

NASA's current view of the Sun at a wave-length of 131 Angstroms. This wavelength shows incredible solar detail.

Click [here](#) or on the image to view as a full screen 48-hour video loop. It is fascinating!



### Propagation Summary

For the 8 day period from Friday, August 23rd through yesterday, August 30th.

The average solar flux was 221, down 15 points from the previous week, with a weekly high of 242 on Friday, August 23rd, followed by a low of 204 on August 29th.

The average sunspot count was 165, down by 19 from last week, peaking at 202 on Monday, August 26th followed by a weekly low of 124 on August 29th.



The Planetary K-index weekly average was 3.3 with a maximum of 5.7 on Wednesday, August 28th, resulting in minor geomagnetic storm conditions. Yesterday's K-index maximum was 4.7 with generally quiet conditions.

Solar flare activity since August 24th has been high with 10 major flares, the largest of which was an M 3.8 event on Friday, August 30th.

Propagation Data

Major solar flares, Saturday, August 24th through 1230 UTC, August 31st.

#	Date	UTC	Mag.
1	Aug 31	0859	M 1.2
2	Aug 31	0238	M 1.2
3	Aug 31	0049	M 1.1
4	Aug 30	1220	M 3.8
5	Aug 30	0206	M 1.2
6	Aug 27	0943	M 1.1
7	Aug 26	1141	M 1.4
8	Aug 24	2146	M 1.3
9	Aug 24	1930	M 1.4
10	Aug 24	0014	M 1.6

(NOAA's graph of recent flare activity: [GOES-X-Ray-Flux](#))

From the NOAA Space Weather Prediction Center, here are the probabilities of major solar flares and the predicted 10.7 cm Solar Flux for the next 3 days. NOAA updates this information daily.

Date	M-Flares	X-Flares	Solar Flux
Aug 31	60%	10%	215
Sep 1	60%	10%	215
Sep 2	60%	10%	220

Looking farther ahead, here is the NOAA Space Weather Prediction Center forecast of 10.7 cm radio flux and maximum Planetary K-index (Kp) for the next 12 days. This data is updated by NOAA every Monday (last updated on August 26, 2024).

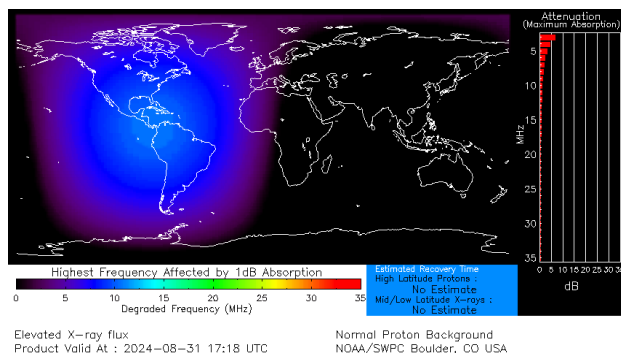
Date	Flux	Kp
Aug 31	250	2
Sep 1	250	2
Sep 2	255	2
Sep 3	260	2

Date	Flux	Kp
Sep 4	265	2
Sep 5	270	2
Sep 6	275	2
Sep 7	275	2

Date	Flux	Kp
Sep 8	275	2
Sep 9	280	2
Sep 10	285	2
Sep 11	280	2

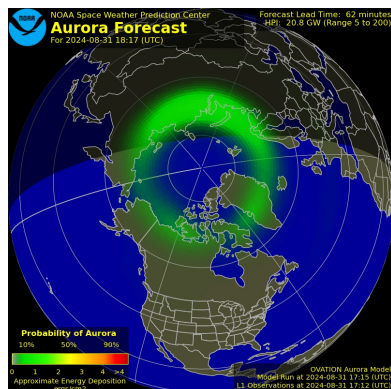
Global D Region Absorption

Conditions in the D-region of the ionosphere have a dramatic effect on HF communications. The D-Region Absorption map combines the effects of solar particles and photons. Yellow to red colors on the map depict increasing signal attenuation, where the bar chart at the right displays attenuation versus frequency. Click the thumbnail below for an animated map of D-Region Absorption:



## The Aurora Borealis

The aurora is not only beautiful to see but can have a profound impact on HF and VHF radio propagation. For the HF operator, auroras can result in a complete shut-down of propagation. However, on VHF, auroras present interesting DX possibilities. Beam antennas are very desirable and should be pointed north, towards the aurora. Signals are reflected by "back-scatter" and will be distorted with a rough buzz. SSB is the best voice mode to use, but copy can be difficult. CW will have a rough buzzy sound but be perfectly copyable. Click the thumbnail below for an animated map of aurora versus time:



## Highs for Cycle 25

Solar Flux: 336 on August 8, 2024.

Sunspots: 382 on August 10, 2024.

## Potentially Dangerous Sunspot

New sunspot AR3806 has a 'delta-class' magnetic field that poses a threat for strong [X-class](#) solar flares. Any explosions this weekend will be geoeffective as the sunspot is turning to face Earth.

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## A Crack in Earth's Magnetic Field

During the late hours of Aug. 30th, [a crack opened](#) in Earth's magnetic field. Solar wind flowed through the gap, sparking a [G1](#)-class geomagnetic storm with auroras in both Europe and the USA. P-M Hedén sends this picture from Vallentuna, Sweden:



"Last night brought another fantastic display to my home town," says Hedén. "Such a show in colors - love it!"

Sightings were also reported in [Estonia](#) ("unusually bright!"), [southeast England](#) ("the 17th night this year!"), Wisconsin, Minnesota, Washington State and even Nebraska! What caused the crack to open? It might have been a fragment of a CME's tail--the same CME that caused [an even stronger storm](#) on Aug. 28th.

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### Popular Propagation web sites

<https://prop.kc2g.com/> (Excellent Maximum Usable Frequency map)

NOAA <https://www.swpc.noaa.gov/>

<https://www.spaceweather.com/>

<https://www.solarham.com/>

<https://dx.qsl.net/propagation/>

### A Propagation Tutorial

The solar X-ray flux tracks solar activity and solar flares. Solar flux, which can vary from as low as 50 to as high as 300, influences the level of ionization in the F2 region of the ionosphere, providing a very good prediction of HF DX conditions. The higher the solar flux, the better conditions will be for the higher HF frequencies and even 6 meters. However, the levels need to be maintained for some days to allow ionization in the F2 layer to build up. A solar flux of 150 results in good HF band conditions, while levels of 200 and up can provide great conditions.

Large X-ray flares on the sun can increase the ionization of the D layer of the ionosphere (a lower layer) on the sunlit side of the Earth, greatly attenuating or blocking HF radio transmissions for up to a half hour. Solar flares often produce Coronal Mass Ejections (CMEs) which, if Earth directed, can lead to geomagnetic storms. Some large flares are also accompanied by strong radio bursts that may interfere with other radio frequencies and cause problems for satellite communication and radio navigation (GPS).

The Planetary K-index is a measure of the magnitude of geomagnetic storms and is an excellent indicator of disturbances in the Earth's magnetic field. A level of 1 or 2 represents quiet geomagnetic conditions; a reading of 3 or 4 may cause some propagation deterioration; 5 and 6 are minor to moderate geomagnetic storms; and 7 to 9 are strong, severe, and extreme storm conditions. Strong geomagnetic storms can trigger Auroral displays and cause HF radio blackouts. Higher geomagnetic activity also has the adverse effect of lowering maximum usable frequencies, much like lower solar flux

does.

For best conditions, the solar flux should be above 150 for a few days with the K index below 2. When these conditions are met, some good DX is likely!

-[Compiled from information on NOAA.gov and other sources]

## Contest Calendar

### Weekly Contests

Contest	Start UTC		End	Web Site
K1USN Slow Speed Test	Monday	0000Z	0100Z	<a href="#">Rules</a>
ICWC Medium Speed Test	Monday	1300Z	1400Z	<a href="#">Rules</a>
	Monday	1900Z	2000Z	
	Tuesday	0300Z	0400Z	
CWops Test (CWT)	Wednesday	1300Z	1400Z	<a href="#">Rules</a>
	Wednesday	1900Z	2000Z	
	Thursday	0300Z	0400Z	
	Thursday	0700Z	0800Z	
Weekly RTTY Test	Friday	0145Z	0215Z	<a href="#">Rules</a>
NCCC CW Sprint (NS)	Friday	0230Z	0300Z	<a href="#">Rules</a>

Note: Start Days are in UTC, e.g. Monday at 0000 UTC is Sunday at 7:00 PM in the Central Daylight Saving Time zone, or Sunday at 6:00 PM in the Central Standard Time zone.

### Full Calendar

Contest	Start		End		Web Site
UK/EI DX Contest, SSB	Aug 31	1200Z	Sep 1	1200Z	<a href="#">Rules</a>
Tennessee QSO Party	Sep 1	1700Z	Sep 2	0300Z	<a href="#">Rules</a>
CWops CW Open	Sep 7	0000Z	Sep 7	2359Z	<a href="#">Rules</a>
North American Sprint, CW	Sep 8	0000Z	Sep 8	0400Z	<a href="#">Rules</a>
<b>WAE DX Contest, SSB</b>	Sep 14	0000Z	Sep 15	2359Z	<a href="#">Rules</a>
ARRL September VHF Contest	Sep 14	1800Z	Sep 16	0300Z	<a href="#">Rules</a>
North American Sprint, RTTY	Sep 15	0000Z	Sep 15	0400Z	<a href="#">Rules</a>
Scandinavian Activity Contest, CW	Sep 21	1200Z	Sep 22	1200Z	<a href="#">Rules</a>
<b>Iowa QSO Party</b>	Sep 21	1400Z	Sep 22	0200Z	<a href="#">Rules</a>
Texas QSO Party	Sep 21	1400Z	Sep 22	0200Z	<a href="#">Rules</a>
	Sep 22	1400Z	Sep 22	2000Z	
Wisconsin Parks on the Air	Sep 21	1600Z	Sep 21	2300Z	<a href="#">Rules</a>
New Jersey QSO Party	Sep 21	1600Z	Sep 22	0359Z	<a href="#">Rules</a>
New Hampshire QSO Party	Sep 21	1600Z	Sep 21	2200Z	<a href="#">Rules</a>
	Sep 22	1600Z	Sep 22	2200Z	

Washington State Salmon Run	Sep 21	1600Z	Sep 22	0700Z	<a href="#">Rules</a>
	Sep 22	1600Z	Sep 22	2400Z	
<b>CQ Worldwide DX Contest, RTTY</b>	Sep 28	0000Z	Sep 29	2400Z	<a href="#">Rules</a>
Maine QSO Party	Sep 28	1200Z	Sep 29	1200Z	<a href="#">Rules</a>
Oceania DX Contest, Phone	Oct 5	0600Z	Oct 6	0600Z	<a href="#">Rules</a>
California QSO Party	Oct 5	1600Z	Oct 6	2200Z	<a href="#">Rules</a>
Makrothen RTTY Contest	Oct 12	0000Z	Oct 13	1559Z	<a href="#">Rules</a>
Nevada QSO Party	Oct 12	0300Z	Oct 13	2100Z	<a href="#">Rules</a>
Oceania DX Contest, CW	Oct 12	0600Z	Oct 13	0600Z	<a href="#">Rules</a>
Scandinavian Activity Contest, SSB	Oct 12	1200Z	Oct 13	1200Z	<a href="#">Rules</a>
Arizona QSO Party	Oct 12	1500Z	Oct 13	0500Z	<a href="#">Rules</a>
Pennsylvania QSO Party	Oct 12	1600Z	Oct 13	0400Z	<a href="#">Rules</a>
	Oct 13	1300Z	Oct 13	2200Z	
South Dakota QSO Party	Oct 12	1800Z	Oct 13	1800Z	<a href="#">Rules</a>
10-10 Int. Fall Contest, CW	Oct 19	0001Z	Oct 20	2359Z	<a href="#">Rules</a>
New York QSO Party	Oct 19	1400Z	Oct 20	0200Z	<a href="#">Rules</a>
Stew Perry Topband Challenge	Oct 19	1500Z	Oct 20	1500Z	<a href="#">Rules</a>
Illinois QSO Party	Oct 20	1700Z	Oct 21	0100Z	<a href="#">Rules</a>
ARRL School Club Roundup	Oct 21	1300Z	Oct 25	2359Z	<a href="#">Rules</a>
<b>CQ Worldwide DX Contest, SSB</b>	Oct 26	0000Z	Oct 27	2400Z	<a href="#">Rules</a>
Ukrainian DX Contest	Nov 2	1200Z	Nov 3	1200Z	<a href="#">Rules</a>
<b>ARRL Sweepstakes Contest, CW</b>	Nov 2	2100Z	Nov 4	0300Z	<a href="#">Rules</a>
WAE DX Contest, RTTY	Nov 9	0000Z	Nov 10	2359Z	<a href="#">Rules</a>
10-10 Int. Fall Contest, Digital	Nov 9	0001Z	Nov 10	2359Z	<a href="#">Rules</a>
JIDX Phone Contest	Nov 9	0700Z	Nov 10	1300Z	<a href="#">Rules</a>
OK/OM DX Contest, CW	Nov 9	1200Z	Nov 10	1200Z	<a href="#">Rules</a>
North American SSB Sprint Contest	Nov 10	0000Z	Nov 10	0400Z	<a href="#">Rules</a>
LZ DX Contest	Nov 16	1200Z	Nov 17	1200Z	<a href="#">Rules</a>
<b>ARRL Sweepstakes Contest, SSB</b>	Nov 16	2100Z	Nov 18	0300Z	<a href="#">Rules</a>
<b>CQ Worldwide DX Contest, CW</b>	Nov 23	0000Z	Nov 24	2400Z	<a href="#">Rules</a>

-[Contest data courtesy of the [WA7BNM Contest Calendar](#) ]